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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/605,585	10/10/2003	Masaki Takaoka	RHM-US020052	2584
22919	7590 01/26/2005		EXAM	INER
SHINJYU GLOBAL IP COUNSELORS, LLP			NADAV, ORI	
	TREET, NW, SUITE 700 ON, DC 20036-2680		ART UNIT	PAPER NUMBER
			2811	
			DATE MAILED: 01/26/2005	5

Please find below and/or attached an Office communication concerning this application or proceeding.

	Applicati n No.	Applicant(s)				
_	10/605,585	TAKAOKA ET AL				
Offic Action Summary	Examiner	Art Unit				
	ori nadav	2811				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address P riod for R ply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on 19 November 2004.						
2a)☐ This action is FINAL . 2b)⊠ This action is non-final.						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the ments is						
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935.C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4)⊠ Claim(s) <u>1-12</u> is/are pending in the application.						
4a) Of the above claim(s) 5-12 is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-4</u> is/are rejected.						
7) Claim(s) is/are objected to.	1 1					
8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9)⊠ The specification is objected to by the Examiner.						
10)⊠ The drawing(s) filed on <u>10 October 2003</u> is/are: a)⊡ accepted or b)⊠ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Pri rity under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) ☑ All b) ☐ Some * c) ☐ None of:						
1. Certified copies of the priority documents have been received.						
 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage 						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
•						
Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary Paper No(s)/Mail D					
Notice of Draftsperson's Patient Drawing Review (P10-946) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date		Patent Application (PTO-152)				
U.S. Patent and Trademark Office						

DETAILED ACTION

Specification

The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

Drawings

Figures 24A-24D should be designated by a legend such as -Prior Artbecause only that which is old is illustrated. See MPEP § 608.02(g). Corrected drawings in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.121(d)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Information Disclosure Statement

If applicant is aware of any relevant prior art, he/she requested to cite it on form PTO-1449 in accordance with the guidelines set forth in M.P.E.P. 609.

El ction/Restrictions

Applicant's election without traverse of claims 1-4 and 6-12 in the reply filed on 11/19/2004 is acknowledged.

Applicant's election with traverse of claims 1-4 in the reply filed on 11/19/2004 is acknowledged. The traversal is on the ground(s) that the devices shown in figures 1-16 are all semiconductor devices according to the first embodiment of the present invention and are based upon the same basic structure as that of the first embodiment. This is not found persuasive because although applicant grouped all the devices shown in figures 1-16 in one embodiment, figures 1-16 still include plurality of patentably distinct semiconductor devices. The fact that these devices are all semiconductor devices does not mean that they are not patentably distinct.

The requirement is still deemed proper and is therefore made FINAL.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States

Claims 1-3 are rejected under 35 U.S.C. 102(b) as being anticipated by Baxter et al. (5,407,854).

Baxter et al. teach in figure 4 and related text a semiconductor device, comprising: a semiconductor substrate main unit; and a thin portion 401, 405 that is

thinner than the main unit and formed such that a recessed portion is formed in the semiconductor substrate, the thin portion having at least one through hole formed therein,; wherein the thin portion is formed such that the etching rate thereof is slower than that of the main unit, since a dopant is infused in the thin portion, wherein the thin portion and the main unit are formed to be unitary with each other.

Claims 1-2 and 4 are rejected under 35 U.S.C. 102(b) as being anticipated by Finnila (5,426,072).

Finnila teaches in figure 6 and related text a semiconductor device, comprising: a semiconductor substrate main unit 29; and a thin portion 11 that is thinner than the main unit and formed such that a recessed portion is formed in the semiconductor substrate, the thin portion having at least one through hole formed therein; wherein the thin portion is formed such that the etching rate thereof is slower than that of the main unit, since a thin portion is formed by means of a selective oxide film, wherein the thin portion and the main unit are formed to be unitary with each other.

Claim Rejections - 35 USC § 102/3

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Application/Control Number: 10/605,585

Art Unit: 2811

Claim 4 is rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Baxter et al.

Baxter et al. teach in figure 4 and related text substantially the entire claimed structure, as applied to claim 1 above, except a thin portion is formed by means of a selective oxide film.

The claimed limitations of a thin portion being formed by means of a selective oxide film are process limitations which would not carry patentable weight in this claim drawn to a structure, because distinct structure is not necessarily produced.

Note that a "product by process" claim is directed to the product per se, no matter how actually made, In re Hirao, 190 USPQ 15 at 17 (footnote 3). See also In re Brown, 173 USPQ 685; In re Luck, 177 USPQ 523; In re Fessmann, 180 USPQ 324; In re Avery, 186 USPQ 161; In re Wertheim, 191 USPQ 90 (209 USPQ 554 does not deal with this issue); and In re Marosi et al., 218 USPQ 289, all of which make it clear that it is the patentability of the final product per se which must be determined in a "product by process" claim, and not the patentability of the process, and that an old or obvious product produced by a new method is not patentable as a product, whether claimed in "product by process" claims or not. Note that the applicant has the burden of proof in such cases, as the above case law makes clear.

Application/Control Number: 10/605,585

Art Unit: 2811

Papers related to this application may be submitted to T chnology center (TC). 2800 by facsimile transmission. Papers should be faxed to TC 2800 via the TC 2800 Fax center located in Crystal Plaza 4, room 4-C23. The faxing of such papers must conform with the notice published in the Official Gazette, 1096 OG 30 (November 15, 1989). The Group 2811 Fax Center number is (703) 308-7722 and 308-7724. The Group 2811 Fax Center is to be used only for papers related to Group 2811 applications.

Any inquiry concerning this communication or any earlier communication from the Examiner should be directed to *Examiner Nadav* whose telephone number is **(571) 272-1660**. The Examiner is in the Office generally between the hours of 7 AM to 4 PM (Eastern Standard Time) Monday through Friday.

Any inquiry of a general nature or relating to the status of this application should be directed to the **Technology Center Receptionists** whose telephone number is **308-0956**

O.N. 1/21/05 ORI NADAV
PRIMARY EXAMINER
TECHNOLOGY CENTER 2800

Page 6